

# SHIGELLOSIS

Shigellosis is an acute bacterial disease of the gastrointestinal tract caused by a bacillus of the *Shigella* species. It is characterized by bloody diarrhea accompanied by fever, nausea, vomiting, and abdominal cramping. Transmission is by the fecal-oral route from person to person or from contaminated food, water or milk. The disease is more severe in children than in adults and can be especially difficult to control in day care centers.

## **Laboratory Criteria for Confirmation:**

?? Isolation of *Shigella* sp. from a clinical specimen.

## **Case Classification**

*Confirmed:* A case that is laboratory confirmed.

*Probable:* A clinically compatible case that is epidemiologically linked to a confirmed case.

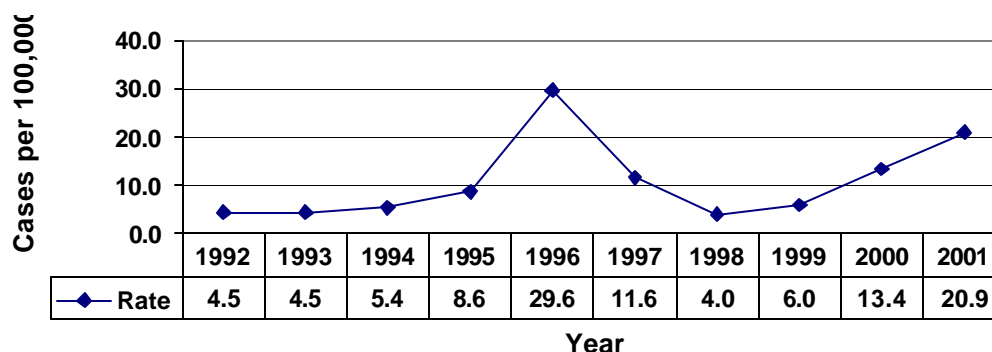
## **Epidemiology**

Kentucky 2001	Rate per 100,000	U.S. Rate (2000) per 100,000
Cases 846	20.9	8.41

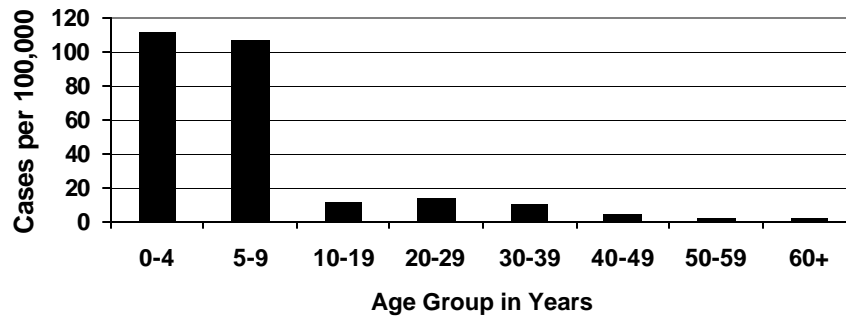
### Cases by Gender

Female	473	22.9
Male	371	18.8

## **Shigellosis Incidence Kentucky, 2001**

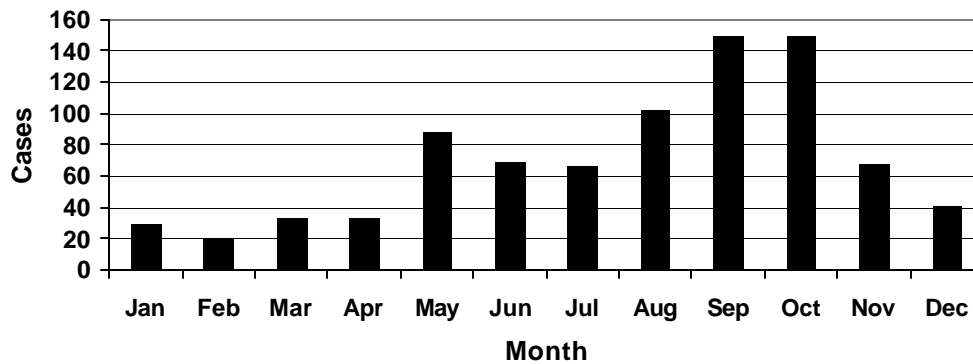


### Shigellosis, Age-Specific Incidence Kentucky 2001



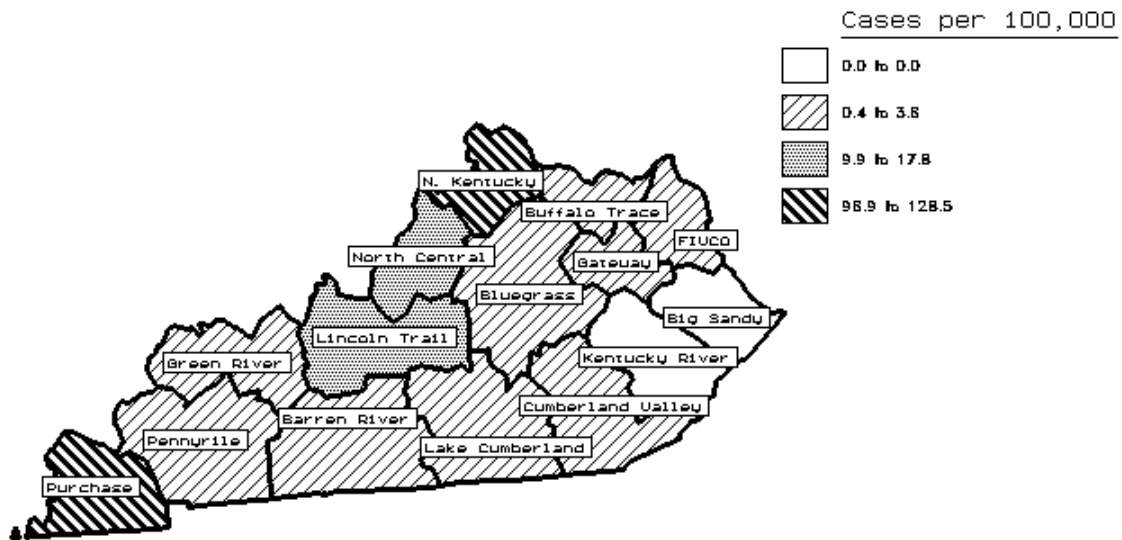
Seventy-four percent (74%) of the total cases were in two districts, Purchase and Northern Kentucky. In Purchase District the 0-4 year age group rate was 607 cases per 100,000 and in the Northern Kentucky District the rate was 533 cases per 100,000 for that age group. For the 5-9 year age group, the Purchase District rate was 959 cases per 100,000 and the Northern Kentucky District rate was 369 cases per 100,000.

### Shigellosis, Reported Cases by Month of Onset Kentucky, 2001



The highest reporting months in 2001 were August, September, October, and May. The highest reporting months for Purchase District, with the highest incidence rate (128.5 cases per 100,000) in the state, were May (59 cases), June (42 cases) and September (45 cases). Northern Kentucky District had the second highest incidence rate (96.9 cases per 100,000) with cases peaking in September (93 cases) and October (100 cases).

# **Shigellosis by District, Kentucky Annual Incidence 2001**



District	Rate Per 100,000	District	Rate Per 100,000
Purchase	128.5	Pennyrile	2.8
Green River	0.5	Barren River	1.2
Lincoln Trail	9.9	North Central	17.8
Northern Kentucky	96.9	Buffalo Trace	3.6
Gateway	1.3	Fivco	0.7
Cumberland Valley	0.4	Lake Cumberland	2.1
Bluegrass	2.8		